

Claims

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A
1. Combinatorial weighing apparatus having
a dispersing device (1) for the distribution of products to
be weighed and
a plurality of supply troughs (15) arranged alongside one
another for feeding the products from the dispersing device
(1) to the weighing containers (13),
each supply trough (15) having a bottom (16) with a first
bottom face (17) and a second bottom face (18) connected
thereto along a first edge (36) which point towards the
dispersing device (1) and are inclined to one another along
the first edge (36),
the first bottom face (17) having a first side edge (19)
and the second bottom face (18) being bounded laterally by
the first edge (36) and a second side edge (37) which
converge in the direction towards the dispersing device (1)
and
each first side edge (19) of a supply trough (15) in each
case overlapping the second side edge (37) of a
neighbouring supply trough (15).
2. Combinatorial weighing apparatus according to Claim 1,
characterized in that the second bottom face (18) is
arranged horizontally in cross-section.
3. Combinatorial weighing apparatus according to Claim 1 or 2,
characterized in that the first side edge (19) is curved
towards the bottom (16) of the neighbouring supply trough
(15).
4. Combinatorial weighing apparatus according to one of Claims
1 to 3, characterized in that in the longitudinal direction
of the supply trough (15) the first bottom face (17) has a

first length which is greater than a second length of the second bottom face (18) in the longitudinal direction.

5. Combinatorial weighing apparatus according to one of Claims 1 to 4, characterized in that at the end of the first bottom face (17) facing away from the dispersing device (1) a boundary wall (25) extending transversely to the longitudinal direction of the supply trough (15) is provided.
6. Combinatorial weighing apparatus according to one of Claims 1 to 5, characterized in that in the longitudinal direction of the supply trough (15) the second side edge (37) has a third length which is greater than a second length of the second bottom face (18) in the longitudinal direction.
7. Combinatorial weighing apparatus according to one of Claims 1 to 6, characterized in that the second side edge (37) extends over a predetermined length and has a section (21) bevelled off towards a second bottom face (17).
8. Combinatorial weighing apparatus according to one of Claims 1 to 7, characterized in that both bottom faces (17, 18) enclose an angle of 150° - 170° .
9. Combinatorial weighing apparatus according to one of Claims 1 to 8, characterized in that the supply troughs (15) are arranged around the dispersing device (1).
10. Combinatorial weighing apparatus according to one of Claims 1 to 9, characterized in that the inclination of the supply troughs (15) is adjustable in their longitudinal direction.
11. Combinatorial weighing apparatus according to one of Claims 1 to 10, characterized in that a first end section (23) of

the first bottom face (17) at the end of the first bottom face (17) facing away from the dispersing device (1) is inclined relative to the first bottom face (17) along a second edge (38) running transversely to the longitudinal direction of the conveyor trough.

12. Combinatorial weighing apparatus according to one of Claims 1 to 11, characterized in that a second end section (24) of the second edge (37) on the end of the second edge (37) facing away from the dispersing device (1) is inclined relative to the second bottom face (18) along a third edge running transversely to the longitudinal direction of the conveyor trough.

13. Combinatorial weighing apparatus according to one of Claims 1 to 12, characterized in that the first bottom face (17) is of substantially rectangular construction.